

13/18 - (C) WPI / Thomson
AN - 1989-058534 [08]
AP - JP19870168128 19870706; [Based on JP1011643 A 00000000]
CN - R01423-X R01784-X
CPY - TOYW; TOYT
DC - E36 J01 J04
DCR - [1] 129342 USE REM; 129360 RCT; 129798 REM; 130360 RCT; 131652 REM;
131663 REM; 1328 RCT; 63 REM; 7 REM; 783 USE REM; 80 REM; 9 REM
DR - 1423-U 1506-S 1521-S 1784-U
DW - 198908; 199412
IC - B01J23/56; B01D53/36; B01J35/04; B01J37/02
IN - FUKUI M; KIMURA M; MATSUMOTO S; MIYOSHI N; MURAKI H; SOFUGAWA H
LNKA - 1989-026069
M3 - [01] C106 C108 C550 C730 C800 C801 C802 C803 C805 C807 M411 M750 M903
M904 M910 N441 Q431; R01423-X
- [02] C107 C108 C307 C520 C730 C800 C801 C802 C803 C804 C807 M411 M750
M903 M904 M910 N441 Q431; R01784-X
- [03] M210 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223 M224 M225
M226 M231 M232 M233 M320 M416 M610 M620 M750 M903 M904 N441 Q431;
8908-D2801-X
- [04] A540 A758 A940 C108 C550 C730 C801 C802 C803 C804 C805 C807 M411
M730 M903 M910 Q421
M5 - [05] A545 A546 C810 M411 M730 M903 Q421
MC - E34-E E35-L J01-E02D J04-E04 N02-E N02-F02 N03-A N03-B
PA - (TOYW) TOYOTA CENT RES & DEV LAB
- (TOYT) TOYOTA JIDOSHA KK
PN - JP1011643 A 19890117 DW198908
JP6015040B B 19940302 DW199412
PR - JP19870168128 19870706
XIC - B01J-023/56; B01D-053/36; B01J-035/04; B01J-037/02
AB - Catalyst consists of a first oxide layer (a) of Ce and Zr formed on a monolithic support, a first alumina layer (b) loaded with Pd formed on (a), second oxide layer (c) of Ce and Zr formed on (b), and second alumina (d) or zirconia layer (e) loaded with Rh formed on (c).
Pref. the second alumina layer is made of La-contg. alpha-alumina.
Alumina stabilised with rare earth metal oxide, esp. La2O3 or Nd2O3, or alkaline earth metal oxide is used for (b) and (d). Esp. gamma-, delta- or theta-alumina is used.
- USE/ADVANTAGE :
Used as a three-way catalyst removing CO, hydrocarbons, and NOx from combustion exhaust. The catalyst uses low cost Pd in place of expensive Pt. Pd and Rh are loaded on the sepd layers, so that the catalyst can remove NOx efficiently even at a high temp above 600 deg.C.
INW - FUKUI M; KIMURA M; MATSUMOTO S; MIYOSHI N; MURAKI H; SOFUGAWA H
IW - WASTE GAS PURIFICATION CATALYST COMPRIZE CERIUM ZIRCONIUM OXIDE LAYER
ALUMINA LOAD PALLADIUM COATING RHODIUM
IWW - WASTE GAS PURIFICATION CATALYST COMPRIZE CERIUM ZIRCONIUM OXIDE LAYER
ALUMINA LOAD PALLADIUM COATING RHODIUM
NC - 1
NPN - 2
OPD - 1987-07-06